AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-19. (cancelled)

20. (currently amended) A method for reacting CO and $\underline{\rm H}_{2,\ell}$ comprising:

converting CO $\underline{\text{from a feed}}$ on one side of a membrane in the presence of water to CO_2 and H_2O on said one side of said membrane, H_2 passing through said $\underline{\text{one side of}}$ membrane to the other side of said membrane;

feeding oxygen to said other side of said membrane; and said hydrogen being combusted on said other side with said oxygen fed to said other side, wherein the feed to the one side of the membrane comprises anode off-gas from a fuel cell.

21. (previously presented) The method according to Claim 20, wherein said oxygen is from a cathode off-gas from an upstream fuel cell which comprises said oxygen.

- 22. (previously presented) The method according to Claim 20, wherein non-combusted oxygen is fed to a cathode of a downstream fuel cell.
- 23. (previously presented) The method according to Claim 20, wherein said oxygen is from air.
- 24. (previously presented) The method according to Claim 20, wherein water is separated off from the off-gas originating from said one side of said membrane.
- 25. (previously presented) The method according to Claim 20, wherein the heat from the off-gas from at least one of the sides of said membrane is recovered.
- 26. (previously presented) The method according to Claim 20, wherein an oxygen-containing gas is introduced on said other side of the membrane under elevated pressure.
- 27. (currently amended) The method according to Claim 20, wherein gas containing water originating from the other side of said membrane is fed to a further step [[for]] of converting CO on one side of a further membrane in the presence of water to give CO_2 and H_2O on the one side of said further membrane, and H_2

passing through said further membrane to the other side of said

- 28. (previously presented) The method according to Claim 27, wherein a separate oxygen-containing stream is fed to the inlet of said one side of said further membrane.
- 29. (withdrawn) System comprising an SOFC fuel cell and a device for reacting CO and H_2 , comprising a hydrogen-permeable membrane (8) bounded on either side by, respectively, a first and a second chamber, wherein said first chamber is provided with feed means for CO and H_2 and with discharge means for CO_2 and H_2O and said second chamber is constructed as a combustion chamber and is provided with oxygen feed means and water discharge means, wherein the anode outlet of said SOFC is connected to said first chamber.
- 30. (withdrawn) System according to Claim 29, wherein the cathode outlet of said SOFC is connected to said second chamber.
- 31. (withdrawn) System according to Claim 29, wherein the cathode inlet is connected to said second chamber.

- 32. (withdrawn) System according to Claim 29, wherein the outlet of said first chamber is provided with water removal means.
- 33. (withdrawn) System according to Claim 29, wherein the outlet of said second chamber is connected to the expander of a gas turbine.
- 34. (withdrawn) System according to Claim 33, wherein the gas fed to the second chamber of said membrane is fed through a compressor of said turbine.
- 35. (withdrawn) System according to Claim 29, wherein the outlet of said turbine is connected to the cathode inlet of a further SOFC.
- 36. (withdrawn) System according to Claim 35, wherein said further SOFC is connected to a system comprising an SOFC fuel cell and a device for reacting CO and $\rm H_2$, comprising a hydrogen-permeable membrane (8) bounded on either side by, respectively, a first and a second chamber, wherein said first chamber is provided with feed means for CO and $\rm H_2$ and with discharge means for CO₂ and $\rm H_2O$ and said second chamber is constructed as a combustion chamber and is provided with oxygen

feed means and water discharge means, wherein the anode outlet of said SOFC is connected to said first chamber.

- 37. (withdrawn) System according to Claim 29, comprising a further device for reacting CO and H_2 , comprising a hydrogen-permeable membrane delimited on either side by, respectively, a first and second chamber, wherein said first chamber is provided with feed means for CO and H_2 and is provided with discharge means for CO_2 and H_2O and said second chamber is constructed as a combustion chamber and provided with a feed connected to the discharge from the second chamber of said device for reacting CO and H_2 .
- 38. (withdrawn) System according to Claim 37, wherein said second chamber is provided with separate oxygen feed means.
- 39. (previously presented) The method according to Claim 21, wherein said cathode off-gas comprises air.